## TWENTY-THIRD VOLUME INDEX

OF THE

## MINING JOURNAL.

Australian Mining Company, 409
Anstralian Mining Company, 409
Alaglo-Californian Gold Company, 409
Alaglo-Californian Gold Company, 5, 18, 31, 37, 150, 214, 262
Alaglo Californian Gold Company, 5, 18, 31, 37, 150, 214, 262
Alaglo Californian Gold Company, 21, 681
Anstralia, state of (leaser), 10
— Mint in, 97; Cory ea, 363
Accidents in mines, 11, 68, 58
Accidents in mines, 11, 68, 58
Ardelaide Land and Gold Company, 21, 681
Arundell United Copper Mines, 31, 144, 305, 518, 701, 721, 811, Anglo. Mexican Mining Association, 45, 252
American copper mining companies, 48
Australian Direct Steam Navigation Company, 37, 51, 467
Australian Pacific Mail Steam-packet Company, 37, 51, 467
Australian Direct Steam Navigation Company, 37, 163
Anglo-Australian and Gold Miners' Mutual Life Assuruance
Company, 33, 103, 108
Auriferous estate, sale of, 64
Aerial navigation, on, 68, 369
Ardennes, the (Belgium), Mining Company, 57, 185
Agua Fris Gold Mining Company, 189
Arielusted trains on rallwava, 68
Ardennes, the (Belgium), Mining Company, 199
Anstralian Gold Mining Company, 199
Anstralian Gold Mining Company, 199
Anteriorous Copper Mining Company, 200, 233, 346
Avon Consols Tin Mining Company, 200, 233, 346
Avon Consols Tin Mining Company, 200
Arley Mine explosion, 231
Anna Consols, 193
Anglo-Mexican Mint, 272
Australian Building Company, 328
Anglo-Mexican Mint, 273
Australian Gold Mining Company, 461
Anbort, in sew (Hunter's), 500
Ashford Consols, 371, 485
Australian Gold Mining Company, 463
Anbort, a new (Hunter's), 500
Ashford Consols Mining Company, 463
Anbort, a new (Hunter's), 500
Ashford Consols Mining Company, 463
Anchor, in sew (Hunter's), 500
Ashford Consols Mining Company, 676, 828
Alten Mining Association, 693, 709, 733
Arifferous reeks, reduction of, 700
Appold's centrifugal pump (Telley c. Easton and Amos), 795
Australian Freehold Gold Mining Company, 877, 834
Australian Freehold Gold Mining Company, 877, 834
Australian and Californian gold mining shareholders, 834.
Boston and Midland Counties Railway and Docks, 3

internals and Californian gold infoing chareholders, 1934 justralian and Californian gold infoing shareholders, 834 justralian and Californian gold infoing shareholders, 834 justralian and Californian gold infoing shareholders, 834 justralian consols Mine, 5 justralian Consols Mine, 5 justralian Consols Mine, 5 justralian Consols Mine, 5 justralian Consols Mine, 194 justralian Consols Shareholders, 195 justralian Consols Shareholders, 195 justralian Colonial Smelting and Reduction Company, 21, 31, brochanite, sub-sulphate of copper, 30 justralian Colonial Smelting and Reduction Company, 21, 31, brochanite, sub-sulphate of copper, 30 justralian Mines, 194 justralian Company, 195 justralian Mines, 194 justralian Mines, 194 justralian Mines, 194 justralian Mines, 194 justralian Mining Company, 195 justralian Sperm Candle Company, 195 justralian Company, 195 justralian Sperm Candle Company, 195 justralian Company, 195 just

Tapping's Prize Ressy on, 801
Costa Riles, on, 11
Costa Riles, on, 11
Costa Riles, on, 11
Costa Riles, on, 11
Costa Riles, on, 12
Caloric engine, Erismon's, 48, 87, 95, 120, 253; Craddock, 271;
Cawson Hill Mise, 45, 80, 115, 102, 193, 507
Cretor, Wheal, 45, 280
Company of Copper Miners in England, 108, 116, 214, 208
Costa Riles, 180
Costa Riles, 196
Costa Riles, 196
Costa Riles, 196
Costa Riles, 197
Caloric Risprovements in the steam-sengine, 88, 128, 223, 248, 364, 372, 411, 643, 766
Cabert United Mines, 136, 283, 544; Treweeke, 650; 709, 723
Casca Riles, 136
Casta Riles, 137, 289, 349, 381, 524
Casta Riles, 137, 289, 349, 381, 524
Casta Riles, 137
Casta Riles, 136
Casta Riles, 137
Casta Riles, 136
Casta Riles, 137
Casta Riles, 136
Cive Bay Copper and Sulphur Mining Company, 224; header,
Cive United Silver-lead Mines, 16
Clomatore catate, sale of, 177
Castle Dimas Mining Company, 193, 384, 337, 708, 756, 811
Charlestown United Mines, 196, 524

Cupier Rotton Mine, Crowan, assault case, 201
Custings, Bernes antimony, 600, 207
Cure and Pales 218
Coresis United Mines, 249
Colonial Gold Mining Company, 254
Columbian Native Copper Mining Company, 261
Crystallography, discoveries in, by Crosse, 261
Candie clock, the, 261
Carticles, Norton's percussion, 271
Cefn Gwyn Mining Company, 272, 275, 412
Curbonie neid gas, antidotts, 303
Cuylan Lead Mines, 321
Curtar City termine, 321
Content Mining Company, 325
Cancel Sisto Quarries, 486
Chancellor cille Gold Mining Company, 381
Copiany Mining Company, 475
Constance, Wheal, 485
Chancellor cille Gold Mining Company, 381
Content Bank of India, Australia, and China, 426
Cosmos Institute, the, 330, 646
Chancellor Mining Company, 475
Cape of Gord Hope and Natal Coal and Ceneral Min. Cn., 547
China-clay of Corawall, statistice, 548
Craigwen Mining Company, 475
Carport Gold Hope and Natal Coal and Ceneral Min. Cn., 547
China-clay of Corawall, statistice, 548
Craigwen Mining Company, 475
Carport Gold Hope and Natal Coal and Cardigan Harbour limber of Company, 475
Carport Gold Hope and Nating Company, 475
Carport Gold Mining Company, 475
Carport Hon Mining Company, 475
Carport Hon Mining Company, 475
Collett, Mr. B., bankraptcy of, 644
Cwmdyle Rock and Green Lake Mining Company, 729, 735
Carmarches and Cardigan Ralivay, and Cardigan Harbour limprovenent Company, 764
Cholier, treatment of, by Mr. Thomas Harvey, 703
Chemietry, Muspratt's new work ols, in numbers, 765
Circle of the Sciences, by Orr, 765
Corm Hill Mine, Ireland, 840
Cwm Darren Mining Company, 827
Collett, Mr. Sparker, 207; Dr. Miningen, 239; Black.
Ventilation remodelled (Indeer), 134, 346; J. 42, 384; Mr. Ventilation remodelled (Indeer), 134, 346; J. 42, 384; Mr. Ventilation remodelled (Indeer), 134, 346; J. 42, 384; Mr. Ventilation remodelled (Indeer), 134, 346; J. 42, 384; Mr. Ventilation remodelled (Indeer), 134, 346; J. 42, 384; Mr.

Law of workmen's service, 819

Diamond powder, artificial, 600
Diamonds in Australia, 31; California, 107; Brazil, 116
Dysmanat State Quarry, 53
Duke of Wellington Consols, 78
Devon Tin Mines, 81, 145, 216, 905, 332, 339, 708, 740
Deven sea soundings, 90
Darien Ship Cand, 37, 51, 95, 108, 137, 309, 779
Dinas Great Capper Mine, 97, 145, 150, 177, 289, 388, 429
Drake Walls Mining Company, 208
Dues, on lord's, 253, 279, 324
Depoit and Georral Life Assurance Company, 254
Devon Great Consols, 272
Dublin Industrial Exhibition, 294, 311, 690, 636
Devon Burat Burra, 304, 342, 708
Dumpler, John Lucina, Vice-warden of Stannaries, death of, 824
Devon Burts Bursa, 304, 542, 708
Dampler, John Lucina, Vice-warden of Stannaries, death of, 824
Devon Burts Bursa, 808
Devon Burts Bursa, 808, 545
Durbam colliers' strike, 545
Dyffryn caiste, sale of, 54
Dolly Hide Copper Company, 638
Bollfrwyno, Middle, gold at, 644
Dunaley Wheal Phania, 690
Delacarita Silver-Lead Mining and Smelving Company, 661 Bridges, Joiets, &c., on transverse principle, 690

Copper, standard of, by Z., 691, 739; prize cessay on, 794

— Trade, the, 5, 45, 75, 88, 123, 144, 169, 167, 184, 191, 195, 253, 323, 363, 369, 387, 412, 418; leader, 434, 891

— Works, cost of establishment, 93, 108, 115

— Mining, United States, 191

— Smelfing, 163, 366, 501; moscopoly, 628; 659

— Mining in America, 169, 167

— and thi alloys, 366

— Impure to manufacturers, 628

— Limpure to manufacturers, 628

— Limpure to manufacturers, 628

— Limpure to manufacturers, 628

— Salington Mines Company, 3, 176

Carpenter, West Wheal, 5

Cost-book System, the, 11; rules, by Collier, 169; Higgins's pamphlet, 163, 183; T. A. Readwin, 191; Argus, 267, 208, 363, 434; out of Corewal, 199, 514

— Tapping's Prize Essay on, 601

Costa Ries, on, 11

Chirkyal Road Company, 22

Caloric engine, Ericsson's, 40, 87, 95, 130, 262, 463.

Dhurode Copper Mine, 637

Electric Telegraph, secret transmission, 723

— Company of Ireland, 3, 10, 280, 481

— on the Fennine Alps, 3

— progress of the, 3, 25; Australia, 31, 43; Bakowell's lecture, 43; Wilkine's, 182; Walker's, 199

— wire rope and manufacturing sompany 548

Electricity in the separation of metals from their ores (Crosse), Elsecar Colliery explosion, 36, 45

East What Russell, 45, 190

Education of miners' children, 44

Eastern Steam Navigation Company, 48

Eastern Steam Navigation Company, 47

Exmouth, Wheal, and Adams, 103

Exmouth, Wheal, and Adams, 103

Exmouth, Wheal, and Adams, 103

Exmouth, Wheal, 103, 467, 491

Engine and Australias Copper Company, 161, 459

Eartch Magnet (Nickir's), 152

East Heriand Mine, 160, 161

Eartjan and Australias Copper Company, 161, 459

Eartpans and Australias Copper Company, 161, 459

Eart Perran 84, George Mine, 176

Eckley and Prockter, Wheals, 192, 293, 294

Edward, Wheal, 176, 823

East India Coape 's Charter (Salt), 230
East Bosora Ment Commany, 288
East Annagh Sty send Hising Company, 294
Electro-plating symethod, 429
Electro-plating symethod, 429
Eagtebrook Mir., 4, 436, 461, 445, 492
Ericson's Air-has, 357
East Shalice Mits. bompany, 436
Eastern Archipeus tompany, 436
Eastern Archipeus tompany, 459
East India Iron Gu my, 237, 563
East India Iron Gu my, 237, 563
East India Iron Gu my, 237, 563
Entor on gold, Edw., jun, reply to, 644
Emigration consider., 1
Electric Light, 61, 5, 67, 269, 483, 569
— and colour new sture (Wessen), 36, 169, 185, 276
France, Wheal, 5, 35

ute, 402; tubes, 22 siden Mountain of Malie Missing Company, 21, 31, 36
seat Westarn Railway, 42, 23
seat trade, the, 31, 49
overance Lead Mine, 67
cological curvey of the IL Kingdiem, 68
adheeh Zine Company, 41
useral Missing Company, 41
reat Brym Consols Copper in Missing Company, 115, 161,
reats Brym Consols Copper in Missing Company, 115, 161,
reat Brym Consols Copper in Missing Company, 115, 161,
reat Music electricity, Nosad's k. 127; Chresio's hattery, 653
— coosdustibility of missers . 127
reaville Delabole State Quart it
reat Nusget Veis Gold Minis Insparty, 135, 176, 268, 224, 280
ireat Tolgue Mines, 144
rology, a plea for, by E. P. II ughan (review), 156
of a part of the Hilmalays 1; of Sectioned, 246
of Novuth Wales and Barra; of 263; 15s of Wight, 502;
Central Europe, 670
Modalurgy, &c., Orifinh - sinems, 701
Josological evidence, lecture on,
Wonders in California, 755
Breat Hewas United Tin Mining Sunsay, 169, 176, 177, 525
Great Treveduce Tin and Copper (e., 234
Great Mestern Cral Company, 22
Great Onslaw Copper Mines, 224
Great Onslaw Copper Mines, 24
Great Western Cral Company, 24
Great Western Cral Company, 25
Great Polycoth Mining Company, 42
Great Devon Consols End., 278
Great Polycoth Mining Company, 42
Great Heating by, 169; Befries's labe, 167
Hydro-carbon, White's, 152; Melhourne, Derset, 71
Lighting, warning, cooking, a reministing, by (lectur Raiter), 160; 163
From tari, 340, 449
Introduction Taxo India, 293
Spontaneous, 64
and coke fires, 746
Electric, 371, 420, 434, 443, 441, 49, 532
Great Dueby Treburget Mines, 369, 697
Gleanalin Mining Company, 426
Great Dueby Treburget Mines, 69, 697
Gleanalin Mining Company, 426
Great Dueby Treburget Mines, 609, 697
Gleanalin Mining Company, 426
Great Dueby Treburget Mines, 609, 697
Gleanalin Mining Company, 426
Great Dueby Treburget Mines, 609, 697
Gleanalin Mining Company, 426
Great Dueby Treburget Mines, 609, 697
Gleanalin Mining Company, 426
Great Dueby Tr orade, the, 31, 45
venor Lead Mine, 47
veical survey of the II
web Zina Company
al Mining Continues

well, Mr. G. C., testimonial to, 927
Selds of, and returns from, Australas 5, 8, 11; original
coverer, 11, 34, 45, 81, 191; statistic 126, 356, 510; deof California, 2, 476
of Canada, 22
South America, 24
North America, 25
Mining Companies, 1831, 52; summ, of, 37, 215, 491,
Geological associations of (Frenwood), 190
Separation of from British ores, 44, 28

Geological associations of (Frenwood), 100
Separation of from British ores, 44, 26
of Victoria, by G. H. Wathen, 96
Invastments in Mining, 31
Washing machines (Starkey), 131; Sistonds, Hills, a
M\*Farlanc's, 152; Walker's, 158
Caivert's papers, 597
in England, 131, 134, 151, 164, 308, 286, 7, 555, 304
Companies and Cost-book, Higgins (rever), 134
Fictitious, at the diggings, 135, 464
Nature and geological position of, 160
Washing Company (La Peruvisnne), 103
Importation of, 215
Digging in Australia, 215; traffic, 356, 54
A Sydney gold merchant's sixular, 215
v. silver miaes, 231
Lamp of 166 ounces, 231
and iron, Merry weather's insure at White 248
Digging, a ceimes, 313
Lavgest mass in the world, 318
Lavg

Gold sands of the Amazon, 879

and eliver assays, by Calvert, 733

in England, a reality, 794; John Taylor en, 780

Mining shareholders, great meeting, 772, 779, 787, 783,

Extracted without quickulver, 780

in Cornwal, Prideaux on, 787

Reduction, Nourse's letter, 788

Discoveries, weekly assays, 786, 830, 837

Assaying in South America, 827

Louis Mi Loughor Lenderyo La Terrib Luard, M Louise M Lodgvan Liberty M

Mellers v Marke V Mercanti Mediterro Magdales Messengo Mammot

Assaying in South America, 827

Hudson, Mr. George, his mining operations, 81

Harmony and Montague Mines, 144

Hill Bridge Mining Company, 148

Holmbank Mining Company, 193

Hall's, Samuel, smokeless farmace, 396

Hibernian Mining Company, 395

Henderson, E.P., insolvent engineer, 305

Henderson, E.P., insolvent engineer, 305

Henderson of, for farmaces of boliers, 305; C. W. Williams, 379, Hemserdon Comools Mines, 404, 444; T. [550, 603, 619, 429

Holdsworth on metalliforous deposits, 42; Ireland, iteresources, Hadson Iron Company, 366

Holyhead Harbour, 563

Holyhead Harbour, 563

Holyhead Harbour, 563

Holyhead Harbour, 563

Hughor Comools Miney Company, 672

Houses, portable, Perkes's, 569

Hutte to intended gold diggers, Guble (review), 670

Hassmar, steam, Balinforth's, 715

Houses, portable, Perkes's, 669
Hinds to intended gold disgars, Guhle (review), 670
Hammer, steam, Balmforth's, 715
Inventions, fictitions, 61
Indisputable Life Policy Company, 67
Ireland, natural resources of, 44
James, Wheal, 78
In.perial Brazilian Mining Association, 80, 332, 666
Illumination, artificial improved, 138
Inventors, advice to, by Direks, 131
Jamaics Copper Mining Company, 103, 544
Investment of capital in Saain, 156
Jamaics Copper Mining, 176
John Bull nugget, 199
Imperial Petropolia Railway, 262
Irish Petropolia Railway, 262
Irish Petropolia Railway, 262
Irish Petropolia Railway, 263
Insher Company, 260, 467, 669,760
Irish Comols Mining Company, 469
Jones's governor fegulator, 558
Insher Comols Mining Company, 469
Jones's governor fegulator, 558
Inspector of Schools' report, 602
Imay Comols Mining Company, 16, 609;
falso of Wight, deposits of, 79
Institution of Gall Engineers, acinimient to, 601; pred. park, 717
Derinn Silver-Reid Ore Company, 16, 609
falso of Wight, deposits of, 79
India, geology of some parts of, 190
— Minerals and railways in, 787
Illuminative power, new, Drain's patent, 308
ron one of Northamptonshire, a 18, 303, 365
— Trade, the, 11, 48, 100, 153 lb0; lecture, 189; letter, 396; various improvements 485; prospects, 609
and steel, improved consoland for unite, 13
Hars, machine for crimplig, 13
— Trade, the 80cch, 12, 79
— Influence of sulphur on, 49
Marbiesad, 53
— Coating with copper am brase, 58, 362, 547, 555
Gre at Leeds, 53
— Manufacture, in America, 48, 96, 311, 436, 540; braggadocia, 562; ditto, 675; ditto, 77
— Influence of sulphur on, 49
Marbiesad, 53
— Coating with copper and brase, 58, 362, 547, 555
— Great Leeds, 53
— Manufacture, in provenents in, 109
— Increase of, by impressed coke, Fairbairn on, 125
— production of in Unite Kingdom, 51
— boots and ships, 51
— Blackwell's leature of, 94
— Manufacture, improvenents in, 109
— Increase of, 94
— Manufacture of ron from sulphur, 197
— On texture of, 246
— on down of the provenent of the provenent of the provenent

Kneckmahon Mines & Kerneggy Mine, 54
Kerneggy Mine, 54
Kneckstreibne Mining Company, 67, 739, 780, 787
Kapunda, West, Mining Company, 67
Kenmare and West of Ireland Mining Company, 103, 108, 415, Keweenaw Point Jooper Mine, 224
Kitty Concols, Wiesi, 397, 540
Kilbricken Mining Company, 692

hen and Westminster Railway, 3, 51, 61 and Mout Western Railway, 10 and Southend Railway, 20 and Southend Railway, compensation land claim, 22 and California Gold Quartz Crushing Company, 45, 61 Joint Sight Banks, 30 and Livrpool Australian Gold Company, 136 Matford Spring Water Company, 367 Indispitable Life Policy Company, 365 Drainyte Bill, 427, 434 and Variain Gold Mining Company, 756 Neorgolia Company, 77

Draining Bill, 427, 434

and Vagnina Gold Mining Company, 756

Necessolis Company, 767

Linares Miching Company, 5, 38, 45, 477, 612, 692

Like Batherst Australeana Gold Mining Company, 512, 527

Suprisor, Copper Minesof, 75, 138, 100, 420, 422; silver at, Lovel, Wast Wheal, 6, 47

La Feruffranc Gold Washing Company, 6, 80, 164

Locomotive Explosion, 169

Engines, improvements in, 26, 132; butlers, 279; company, 6, 80, 164

Locomotive Explosion, 169

Le Minear Gold Mining Company, 94

Langford and Barring, Wheal, United Company, 116

Liguance Mining Company of Jamalea, 135, 539, 692, 740

Liguance Mining Company of Jamalea, 135, 539, 692, 740

Liguance Mining Company of Jamalea, 135, 539, 692, 740

Liguance Mining Company of Jamalea, 135, 539, 692, 740

Liguance Mining Company of Jamalea, 135, 539, 692, 740

Liguance Mining Company, 504

Hack, nugget, 351

Trade, 419; statistics (Runt), 553

Liverpeal, copper trade of, 207, 223, 239

Becke, worked by radivey, 434

Lac infanta Lead Mining Company, 208

Loci, Goble's, challenge to the world, 388, 295

Whishaw's, electro-magnetic, 500

Life boats, improvements in, 31

Lar ashire, statistics of soul of, 340

Ligigl, Lord Brougham on, 309

Larkey, Mr., claim to.

```
Lowie Mining Company, 445, 477, 525; rales,
Loughor Coal and Rallway Cumpany, 525
Lenderyou v. Williams, 562
La Terrible seal-field, 453
Luard, Mr. Henry, testimonial to, 660
Louise Mines, Rheniah Prussis, 660
Lodgvan Lesse Tin Mining Company, 733
Laberty Mining Company, 741
London Minney, Blennich Perusia, 690
London Lease Tin Mining Company, 733
Liberty Mining Company, 741
Marke Valley Mine, 5
Metallic surfaces, ornamenting, 13, 454
— Produce of America, 685
Metal trades, the, 22; prices, 61; returns, 137; Lisprosi, 31
— Improvements in colling for wire, 24
— Increased price of, 69
— Improvements in conting, shearing, and samplest, 1 Improvements in conting, shearing, and samplest, 1 Improvements in conting, shearing, and samplest, 1 Improvements in conting, shearing, 30, 301, 323, 487
— Tubes, Improved, planeer, 50, 51, 109, 501, 523, 487
— Meelanical properties of, 643
— Mariquita and New Granada Mining Company, 54
— Maricia and New Granada Mining Company, 50
Marle, artificial, 69
Marle, artificial, 69
Mathe, artificial, 60
Melicilites, resemblance to gold, 81
Mineral wealth of England and Ireland, 87
Minerals under a railway, 215
— of South Assiralla, 769
Meroury, permeability of metals hy, 109
Minso Gernac Company, 116
Mison Copper Mines, Staffordahire, 122
Metcalfe Mining Company of Jamaica, 177, 193, 47 M5, 721
Multiplying machinery, Callen and Ripley, 232, 248
Molecionna River Gold Quarts Company, 246, 279
Melbourne, Sydney, and Adelaide Chartered Bank, 41
— and Culonial House Investment Company, 32, 47
Monarch Gold Mining Company, 288
Marke Valley Consols, 304
Mercantile and Maritime College, 310
Mediterranean Electric Telegraph Company, 33, 35
Magdalens Steam Navigation Company, 363
Museum of Practical Geology, Scotland, 433, 53
Massissipi and Ohlo Rivers, by Eller (review, 452
Manuer from water-dosedes, 39, 491, 555, 556
Marke Valley Consols, 304
Mercantile and Maritime College, 310
Mediterranean Electric Telegraph Company, 345, 3
Ministers of Mining Company, 363
Museum of Practical Geology, Scotland, 433, 53
Mississipi and Ohlo Rivers, by Eller (review, 452
Manuer from water-dosedes, 39, 491, 555, 556
Marke Valley Consols, 304
Mercantile and Maritime College, 310
Mediterranean Electric Telegraph Company, 453
Minister of College, 300
Mediterranean Electric Telegraph Com
                                                                                                                                                                                            Customs, 187
Practical—on the laws of Nature, 347, 33, 381, 387, 412
Brokers, 397
In Siveden, 387
Its mysterias, &c., 412
Exchange, proposed, 613, 638, 635, 643-15, 668
Clearing away ganjowder smale, 493, 18
In Durham, 461
In Prussis, 467
In Siveden, 467
In Prussis, 467
In Durham, 461
In Prussis, 467
In Prussis, 467
Engineering, a practical tre-tise on, 6enwell (review), Regeneration of confidence in, 675
Propress of, 835, 6, 7
Propress of, 835, 6, 7
Propress of, 835, 6, 7
Stryl, description of, 53; legislations, 715
Dividends, general summary of, 59
He igneous achool of, Mushet, 207
Rapologs, 381, 404
Working in uncongenial strata, N. Bor, 396, 427
of Greenland, 387, 645, 667
On the granite range near the Riv Teign, J. Cornish, Nev'law for, 619, 651, 666
Inspectors, 412, 685
Ratily to poor-rate, 467, 483, 675, 6
Termenbeere's report, 618
Ere's Mitnel Improvement Soulety, 97
Strik in 8t, Just, 246, 250, 221
and smelters, 272, 287, 308, 282, 4, 466, 507, 523, 691;
Manuel's test imonial to, 287, 306, 483, 483.
```

788,

stha and Naphthaline, partification of, 13
crespaper, a nevel, 31
crespaper, and company, 63, 67, 97, 145
crespaper, and company, 63, 67, 97, 145
crespaper, and company, 103
crespaper, and company, 103
crespaper, and company, 103
crespaper, 104, 201
crespaper, 105, 104
crespaper, 105, 104
crespaper, 105, 105
crespaper, 105, 105
crespaper, 105
cre New Detaboos State Company, 439

Ore, copper, ticketings, Cornwall, 53, Swansea (37 years), 59

ore palverisers, 67, 41, 59, 102, 115, 160, 368, 184; Berdan's, 152,
261, 311, 516, 544, 597, 683, 684, 789, 787; Calvert's report, 717;
Ansted's ditto, 789; Dray's, 311; Cochran's, 485, 500; Bages,
528, 565; Perkes, 706, 755, 389; Cochran and Baggs, 613, 627;
Reeves's, 716; Stainsbury's paper on, Society of Arts, 748;
749; "John Bull" and "Junies," 780, 788, 311

Ore separators, Von Sparre's, 81

Ore, copper, improved treatment of, 669, 716

Obernhof Mining Company, 247, 444, 740

Oriental Eank Corporation, 531

Oxygen, Faraday on, 371

Orsamentation of Matals, &c., 13, 484

Old Trewether Mine, 492, 381, 612

Old Cramington Colliery, 523 Organization of Metals, &c., 13, 484
Old Trewether Mine, 492, 581, 612
Old Cramington Colliery, 523

Paddles, hollow-float, 115, 192
Panama, Isthmus of, ship canal, 37, 51, 95, 108, 187, 660
Parian marble, 837
Parkwyn and Carwalsick Tin Mines, 248
Partnership, law of Coat-book System (leader), 386, 418
Partnership, law of Coat-book System (leader), 386, 418
Partnership laws of France, 51
Patente's Manual, by Johnson (review), 311
Patente's Manual, by Johnson (review), 312
Patente, 11st of, under the new law, 169, 185
Patente, 11st of, under the new law, 169, 185
Partney, 1st of, under the new law, 169, 185
Partney, 1st of, under the new law, 169, 185
Partney, 1st of, under the new law, 169, 185
Partney, 1st of, under the new law, 169, 185
Pearly, 1st of, under the new law, 169, 189
Pearly, 1st of, under the new law, 169, 189
Pearly, 1st indicated, 199
Pearly, 1st of, under the new law, 169, 189
Penbroke and East Crimis Mining Company, 78, 97, 183, 332, 568
Pearsen Mining And Mines, 189
Penlyne Court Lead Mines, 349, 329
Penrons Silver-lead Mines, 349, 329
Penrons Silver-lead Mines, 369
Perran Wheal Affred, 139, 249
Perran Silver-lead Mines, 168
Perran Wheal Affred, 139, 249
Perran Wheal Affred, 139, 249 428, 478

Post-Office Directory for 1854 (review), 701
Prignant Consols Mine, 11
Prince of Wales Mine, 515, 589, 549
Principles of Commerce and Commercial Law, by Sir-G. Stephen (review), 652
Prockter, Wheal, Mining Compeny, 77, 89, 102, 115, 118, 128, 144
Professional Life Assurance, 642, 632
Propulsion of ships, improvements in, 43, 121, 169, 384, 669, Prosper, Wheal, 461
Providence, Wheal, 461
Providence, Wheal, 461
Providence, Wheal, 60
Provincial Bank of Ireland, 312
Punctuality at meetings, importance of, 444
Ouncils, april 1998 Quartz, auriferous, crushing on, 25, 31
— crushing, Capt. Shrapnel's patent, 61, 81; Dray's, 185;
— Perkes's, 381, 829
— Bagga's steam-stamps, 67, 89, 185, 193, 215
— Richards and Grose's ore pulverisers, 81
— crusher (general remarks, 231); letter by "C.," 281, 554
— Rock Maripose Gold Mining Company, 177, 739; leader, 183
— Omenablue, 362; Perkes, 381 Quenching, 362; Perkes, 381 Queen's College, Birmingham, 233 Quicknilver in Great Britain, 580

Royal Hibernian Mining Company, 6, 348, 379, 844, 639, 766, 72:

— Santiago Mining Company, 15, 428

— West Indian Mining Company, 21

— Bank of Australia, 45

— Artic Company, 150

— Fanopticon of Science and Art, 294

Reason why, the—Corulah song, 53

Roytage Mine, Staffordshire, 115

Rahine, sopper Mining on the, 121

Refrigerator (Dirks's), 127

Round Hill Mining Company, 161

Respry, Copper Mining Company, 216

Risca Colliery, explosion, 231

Red Dragon Mining Company, 204, 724

Runnaford Coombe Mining Company, 381

Red Dragon Mining Company, 394

Restsh Consols Mine, 444, 515

Rhoswydol and Bachieddon Mining Company, 385

Restsh Consols Mine, 444, 515

Rhoswydol and Bachieddon Mining Company, 387

Restsh Consols Mine, 444, 515

Rhoswydol Siste Quarry, 368

Rinsey United Copper Mine, 462

Remisk Mining Company, 659

Rochdale Canal Company (1se case), 714

Railwsy accidents, provention of, 18; Berran's patent, 186, 191, Argus, 297, 603; F. St Thomas's, 707; Tyer's electric plan, 821

— Carriages, improvements in constructing, 22, 144, 462

— Parson's General London Junction, 51

— Arnour's Articulated Trains, 68

— Chairs, Griffith's patent, 68; M'Conochie's, 185

Signal, improved (Major Archer's), 96, 492; Gobile, 659

experiments, on, 185

— In India, 137, 451

— In India Iron, American, 609
Dock line, at Liverpool, 730
on common roads, 763
alangers, and how to stood, them, 765
South Anstralia, progress and prospects (our own correspondent) 4, 31, 183, 247, 429, 436
Sophia, Wheal, 6, 44
Society of Arts, exhibition at, 11
South Anstralian Copper Mining Company, 11, 247; law case, Serew propeller, on the, by Bourne (review), 13
Sulphuric acid, improvements in manufacture, 22
Sulphate of baryies, Nassau Company, 37
South Australian Mining Association, Burns Burns, 46, 106 419
Smoke consumption, 53, 67, 78, 322, 271, 287, 296, 304, 325, 347, 348; Frazer's paper, Society of Arts, 755, 763, 834; Direk's oi, 239, 253, 362, 296, 532
St. Katharine Dock Company, 43, 452
Sociish Australian Investment Company, 61
Syphon, Mouatic's improved, 68, 11, 45, 75, 83, 115, 192; Caffing's, 216, 289, 364, 482, 477
Saltin Ireland, 48; trade, 323
Stolic Climaland Consols, 78
Silver, new alloy of, 31
Steam engines, improvements in, 87, 152, 161, 168, 169, 200, 404, 481, 371; Medwin's, 564, 581, 685; Mushes, 706; Parsey, 321
South Power Great Consols Mining Company, 87, 492
Silver Mine in Inverness-shire, 90
Shripmell's ore blasting machine, 61, 81, 89, 102
Stefel Heath's improvements in manufacture, 109, 572, 386, 227, Safety Isan, Plant's, 121; Dr. Glover's paper on, 795
Sanskerland Docks, litigation, 135
St. John Del Rey Mining Company, 144, 332, 329, 515; law case, South Tresevean Mine, 160
Wales and Great Western Coal Company, 188
Steam guage improved, 246; worked expansively, 379, 380, 564
— Elucidation of, &c., T. Craddock, 411; P. Speace, 411
Sockton blue Lias Line and Portland Cement Company, 177, Smelting at Swanses and Humburg, 249
Sulls, improvements in, Fanskawe, 248
Steam, surge, surge, and Humburg, 249
Sulls, improvements in, Fanskawe, 348
Steam Goodola, Ferry, and Pier Company, 461, 466
Samson, Wheal, 435
Steam-boller explosions, prevention, 358
Sulmarine telegraph to Belgium, 372
South Australia and the Duke of Wellington, 580
Scanbers, John 18, 199
Steam-ships, improved mode of coaling,

ban revnanco av steel sbod, 638
School of Mathematics, at Pertamouth, abelition of, 668, 732
School of Mathematics, at Pertamouth, abelition of, 668, 732
School of Mines and Science, Cornwall, 698, 731, 146, 778, 781
School of Mines and Science, Cornwall, 698, 731, 146, 778, 781
School of Mines and Science, Cornwall, 698, 731, 146, 778, 781
School of Mines and Science, Cornwall, 698, 731, 146, 778, 781
Stockport, Diskey, and Whaley-bridge Railway, 48
Stockport, Diskey, and Whaley-bridge Railway, 48
Stock, artificial, Sarrett's, 748
Stone, artificial, Sarrett's, 748
Stone, artificial, Sarrett's, 748
Stone, artificial, Sarrett's, 748
Swansea Bay and Loughor Valley Railway, 521 Sortraige Consola Mining Conspany, 773
Sortraige Consola Mine, 775, 782
Swansea Bay and Loughor Valley Ballway, \$21
Treburget, Great, Mine, 5, 18, 73, 628
Trevens and North Levant Mine, 6, 18
In stream-works, ob. 12
Tariff, American, the, 23
Treinar Mine, 30, 30
Tin, statistics of, 31, 232, 483
— Ores, improved treatment, 232, 694
— Purification of, 636
— advances in prices of, 198
Trevaiga Slate Quarry, 45
Tyn-y-Worglod Slate Quarry, 60
Toys of gutta perchs, 67
Tregurin Downs Tin and Copper Cansols Mine, 121
Tassan Lead Mines, 137, 216, 246, 305, 388, 413, 726
Treburget United Mines, 144, 376, 678
Tywardreath Mine, 161
Tubular bridge aeross the Nile, 260
Tincroft Mining Company, 225, 644
Tyn-y-Berth Slate Quarry, 225, 660
Tirecolf Mining Company, 225, 644
Tyn-y-Berth Slate Quarry, 225, 660
Tricolf Mining Company, 255, 644
Tyn-y-Berth Slate Quarry, 225, 660
Tricolf Mining Company, 253
Tray or waiter, improved, 261
Triyonal Hydraulic Machine, Goble's, 280, 311
Truck System, the, 205, 606
Tristrem, Wheal, 368
Traine Sunted Mines, 349
Traine Museum of the Society of Arts, 519
Tramax Maria Copper Mine, 389
Tunnelbug in rock, machine for, 61, 841, 127, 533
Torbane Shered Case, 107, 367, 498, 384, 415, 635, 740, 7
Tramas Maria Copper Mine, 368
Tunnelbug in rock, machine for, 61, 841, 127, 533
Torbane Shered Case, 107, 367, 498, 384, 415, 635, 740, 7
Tramase Concles Mining Company, 622
Transar Concels Mining Company, 623
Trastion, amount of, on railways and stays, 636
Towyn Slate Quarrying Company, 622
Trasbaw, James, Ed., C.E., death of, 78
Tredunick's bankrugocy, 710
Treblawin, Henwood Company, 77
Trabshaw, James, Ed., C.E., death of, 78
Treleoweth Mining Company, 77
Trabshaw, Hames, Mining Company, 72
Trabshaw, Manne, Ed., C.E., death of, 78
Treconclett Down Mine, 818
Upper Canada Mining Company, 21
United Mexican Mining Association, 40, 430, Upper Canada Mining Coapany, 21
United Mexican Mining Association, 40, 459,
United Mexican Mining Association, 40, 459,
United Gefail-y-Miners, Fish, 20e
Unity, Wheal, 224, 289, 253, 272
Uny, Wheal, 299, 418
United Kingdom Electric Telegraph Compan
Unity Fire Assurance Association, 339, 515, 5
United States tried by "fixed facts," 379, 469
United States tried by astro-fixities, 379, 479
United States tried by Astro-fixities, 369
Universal Electric Telegraph Company, 715, 7
Upper Perest Yin Works, 728 Ventilation of collispics, 522; steam-let, 18, 202, 270, 303; Dr. Mchintacen, 270; Juda, 403, 716; Mackworth, 635
Vor. Great Wheal, United Mines, 5, T. Valuable Problems, 151.
Valva, double action, 500-ye, 340: Volcamic reek, 363
Victoria, minerais of, 485; maily Ventilating coal ships, 397
Voice from Mines and Purnoce.
Veins of lend ore, ovidence that

n Fernando Silver-lead Mining and Sames, Daniell's steel shod, 638

Voice from Mines and Purnace, voins of lead ore, oridence that,

West Cornwall Enliway, 3
Water supply, on, 12
Worthing Mining Company, 18, 492
Worthing Mining Company, 18, 492
Worthing Mining Company, 18, 492
Water disk, improved, 11
Wheels of carriages, improved, 12
Wheels of carriages, improved, 12
Woodsde Colliery Company, 13
West Crimis Copper Mine, 23, 24
West Crimis Copper Mine, 23, 31
Wire, extraordinary length of, 237
Wrysgan Salet and Sale Querring Colleging Indiany Company, 25
West Wheels Russell Mainry Company, 25
Water power, new turbine, M dam's, 552
West Wheel Russell Mainry Company, 25
Water power, new turbine, M dam's, 552
West Wheel Gold Mining Company, 248
West Wheel Gold Mining Company, 248
West Wheel Edward Mining Company, 359
Windmill's, hypotheniar, Cohe's, 319
Williams, Chai, Wye, on intelligence, 331
Williams, Chai, Wye, on intelligence, 331
Williams, Chai, Wye, on intelligence, 341
West Wheel Buller, 331
Williams, Chai, Wye, on intelligence, 367
Water Cogistan Mine, 352
West Cogistan Mine, 352
West Cogistan Mine, 353
West Grand Jone, 36, 143, 257
West Par Consols Mine, 733
West Grando, Debts, 667
Wildberg Grent Consols Mining, Company, 674
Wignt, strikes and riot at, 48, 512
West Mariposa Gold Quartz Company, 874
Veoland Coasols Mining Company, 874
Verland Coasols Mining Company, 875
Verland Coasols Mining Company, 875
Verland Coasols Mining Company,

Yeoland Consols Mining Company, \$1, 255 Yrfon River Mining Company, 103 Zinc to shipbuilding, 152 Zion, Wheal, Mining Company, 612 Zinc manufacture in Silesia, 121